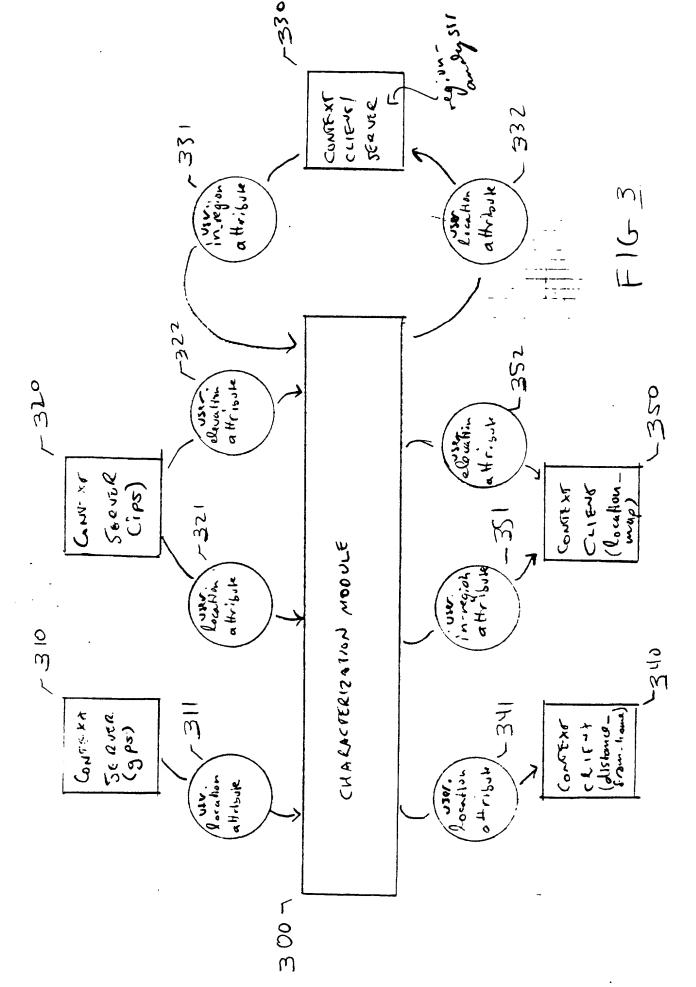


Fig. 2



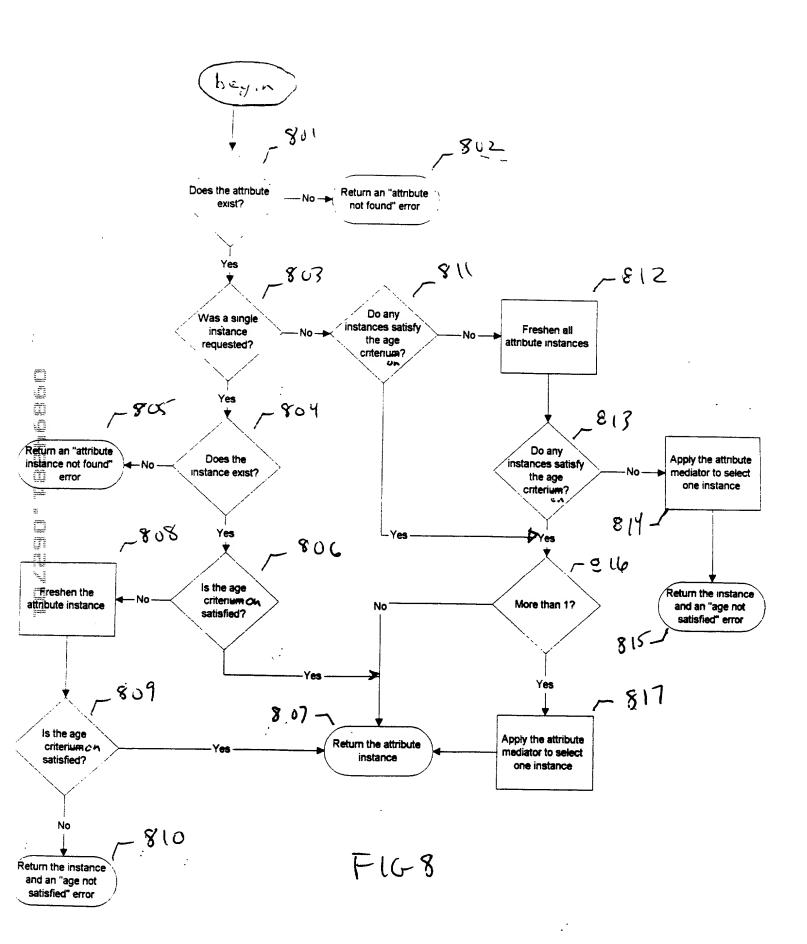
coh

					L	_							
context server table	request handler	(eo	(eo	ce)	٠ ٢/٠	attribute instance table	number of	context clients	2	2	•	0	[217
00		(reference)	(reference)	(reference)	۲ ۲ / ۶	attrik	units		degrees/minutes	degrees/minutes	meters	none	ر ۲/ رو
	filename	gps.exe	ips.exe	l r a.exe	413		timestamp		13:11:04.023 2/22/2000	13:11:01.118 2/22/2000	13:11:01.118 2/22/2000	none	1815
	installation date	2/10/2000	2/21/2000	2/10/2000	FIG 4		uncertainty		.60°.0	0°.021'	5.	none	3 FIG 5 14
	version	2	2	2	2147		value		47° 38.73' N, 122° 18.43' W	47° 38.745' N, 122° 18.424' W	22	none	5/27 7
			_	nalysis 1	1141		context server	name	sd8	sdi	sdi	location_region_ analysis	7157 11
	context server name	gps	ips	location region analysis			attribute name		user location	user location	user elevation	user in region	7
		401	402	7	<u>^</u>				SOL	7205	Ses	TES	

200

		context client table	~600
	context client name	message handler	
(30)	location map	(reference)	
	distance from home	(reference)	
1000	region analysis	(reference)	
ĵ e	-01	て,9 人	٠
	9 DIH	9	

						alli	atti ioute instance table
	attribute name	context server	value	uncertainty	timestamp	units	number of
		name					context clients
							consuming
. (user.location	gps	47° 38.73' N,	,60°,0	13:11:04.023	degrees/minutes	2
70			122° 18.43' W		2/22/2000		
(user location	ips	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2
70/			122° 18.424' W		2/22/2000		
5	user elevation	sdi	22	5.	13:11:01.118	meters	
<u>ي</u> آ					2/22/2000		
•	user in region	location region	none	none	none	none	
10	•	analysis					
					•		

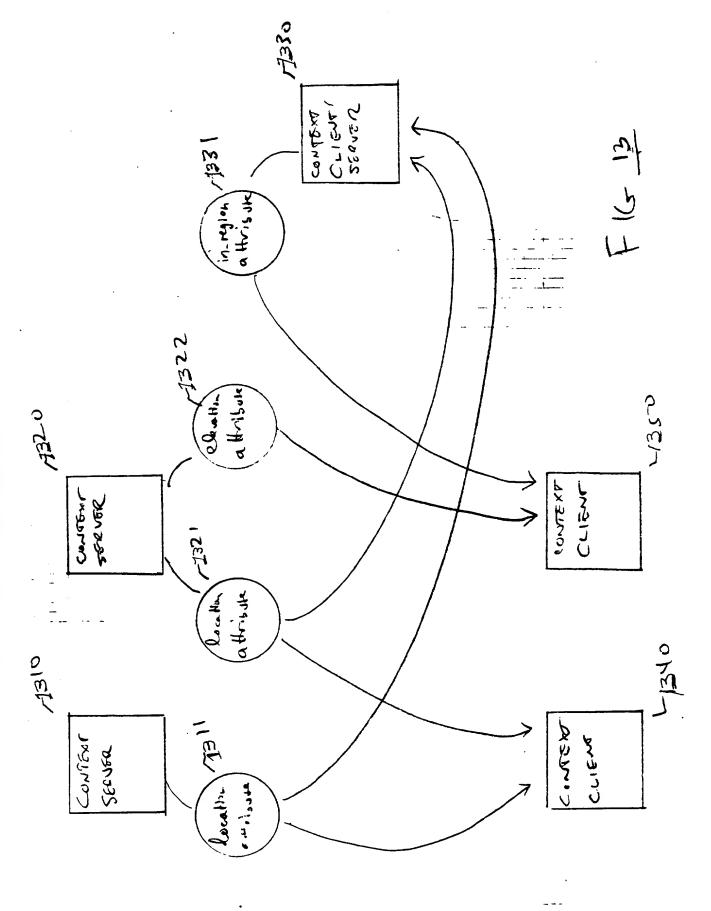


006				Т	-	
attribute instance table	number of context clients consuming	2	2	-		(8)
attril	units	degrees/minutes	degrees/minutes	meters	none	ع ا ا
	timestamp	13:11:04.023 2/22/2000	13:11:01.118 2/22/2000	13:11:06.565 2/22/2000	none	551
-	uncertainty	.60°,0	0°.021'	5.	none	3 FIG 9
	value	47° 38.73' N, 122° 18.43' W	47° 38.745' N, 122° 18.424' W	22.25	none	رم
	context server name	sd8	sdi	ips	region analysis	
	attribute name	user.location	user location	ușer.elevation	user.in region	191
		701	706	963	\	107

						· 1	1000
						condition table	
	condition name	context client name	first logical	second logical	comparison value	logical operator	
		•	parameter	parameter			
100	ool in region true	region analysis	user in region	none	TRUE	=	
<u>}</u>	101	21017 11012	9/	13 L 1014	٦ ا ا ا	7 616	

0011			
condition monitor table	stopped	no	& ∃ ∫
condition	condition last trigger handler evaluated reference	(reference)	L1116 L1117
	condition last evaluated	13:11:29.101 (reference) 2/22/2000	
	frequency	30	7 112
	· behavior	TRUE or	13 FIG 11
	condition	name in_region_true	L 1112 L 1113
	context client	monitor name name name region_analysi in_region_true TRUE or	s
	condition	monitor name region_bounda	ry crossed
		7	\ 5

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attribute request table

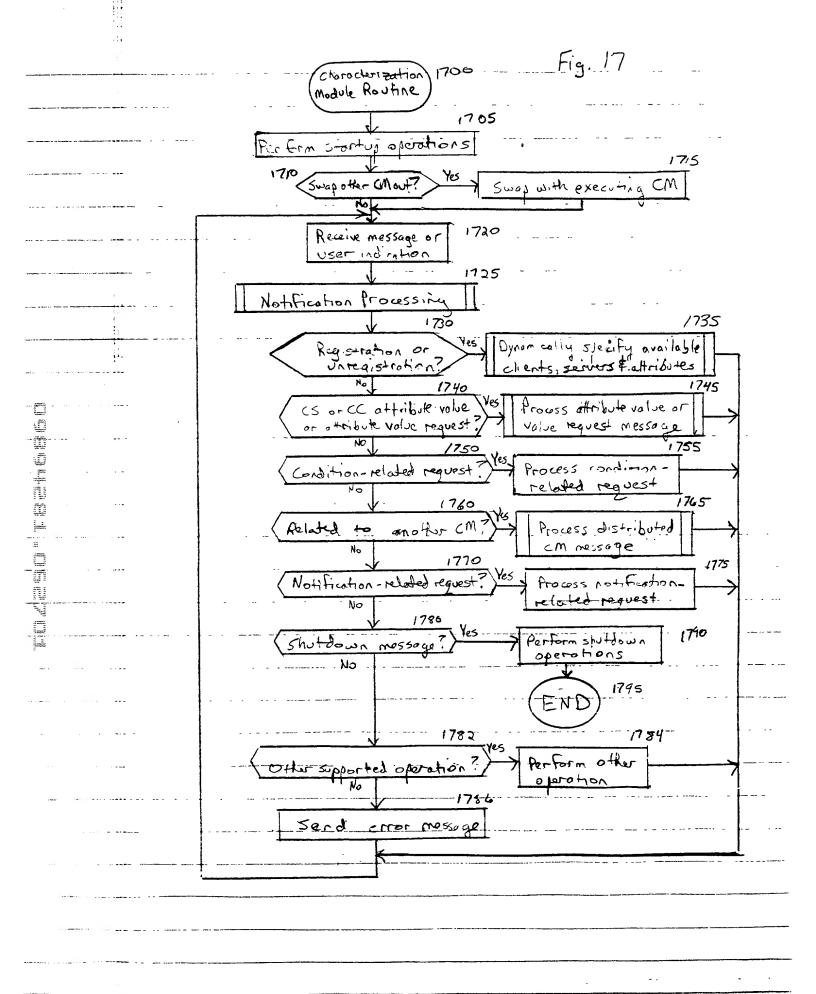
attribute name	context client name		
user.location	distance_from_home		
user.in_region	location_map		
user.location [gps]	location_region_analysis		
user.elevation	location_map		
411	Figure 14 7/4/2		

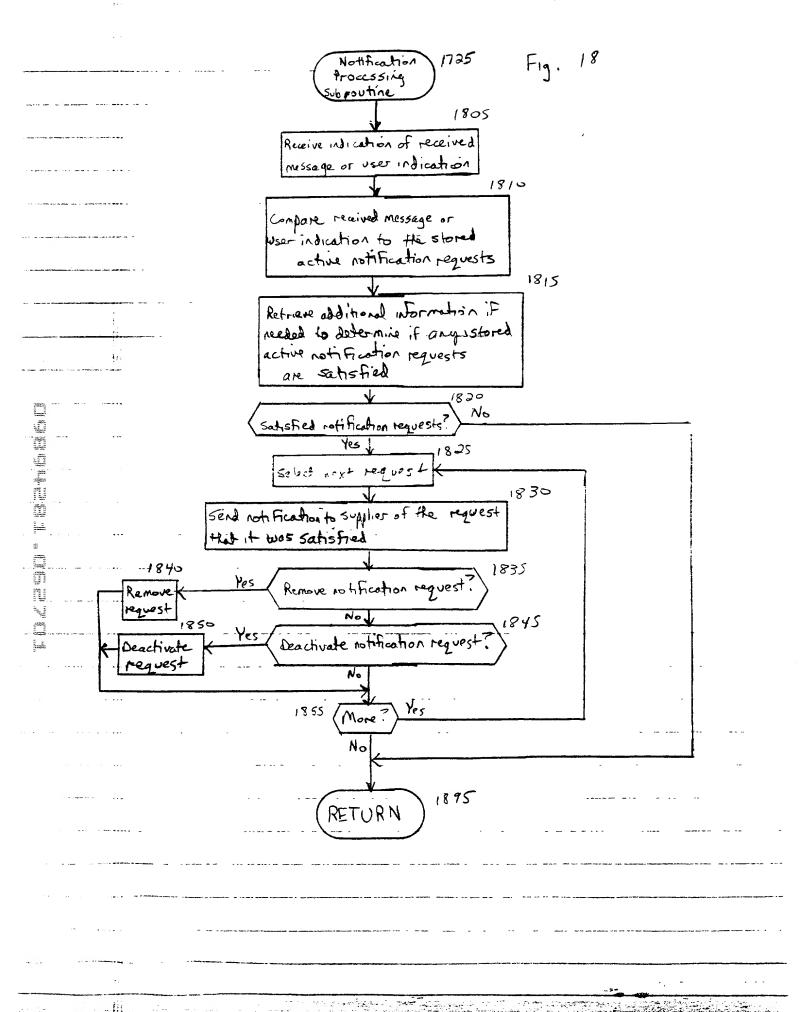
User.	Platform. (continued)
Desired_privacy_level	CPU.
Interruptibility	Load Fig. 15
Speed	Speed 'J'
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection status
Auditory_availability	Connection speed
· · · · · · · · · · · · · · · · · · ·	Connection_type/device
Proximity. <item name="" or="" place=""></item>	Connection_activity
Mood.	Power.
Happiness	
Sadness	Power_source
Anger	Power_level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number_close
Running	Local.
Sleeping	Time
Talking	Date
Typing	Temperature
Walking	Pressure
Location.	Wind_speed
Place name	Wind direction
Latitude	Absolute_humidity
Longitude	High_forecast_temperature
Altitude	Low forecast temperature
Room	People present
Floor	Ambient noise_level
Building	Ambient light level
Address	Days. <pre>previous or future>.</pre>
Street	High_temperature
	Low temperature
City	Precipitation type
County	Precipitation amount
State	Place. <pre></pre>
Country	· · · · · · · · · · · · · · · · · · ·
Postal_Code	Application.
Destination. (same as User.Location.)	Mail.
Physiology.	Available
Pulse	New_messages_waiting
Body_temperature	Messages_waiting_to_be_sent
Blood_pressure	Phone.
Respiration	Available
Person. < name or ID >. (same as User.)	In_use
Platform.	On/off
UI.	Notification_mechanism
Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile output_device_availability	Sound_recorder.
Visual output_device_availability	Available
Auditory_output_device_availability	Recording

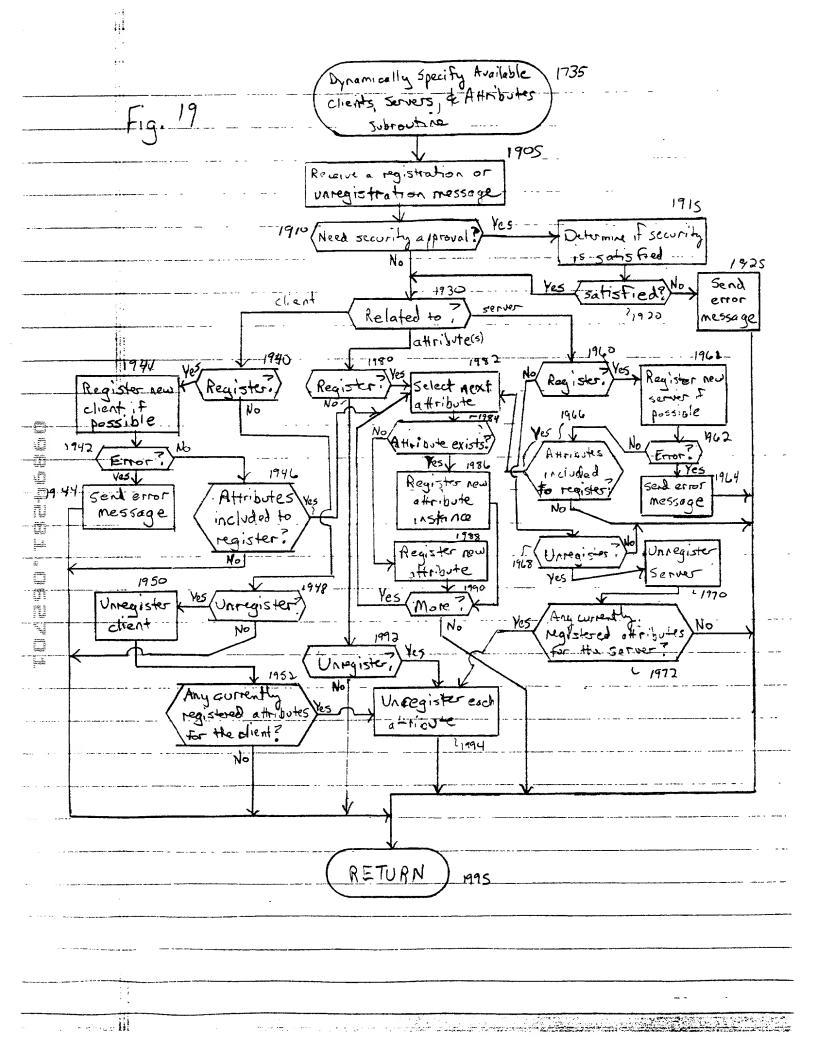
- 1) User Setting
 - a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
 - b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

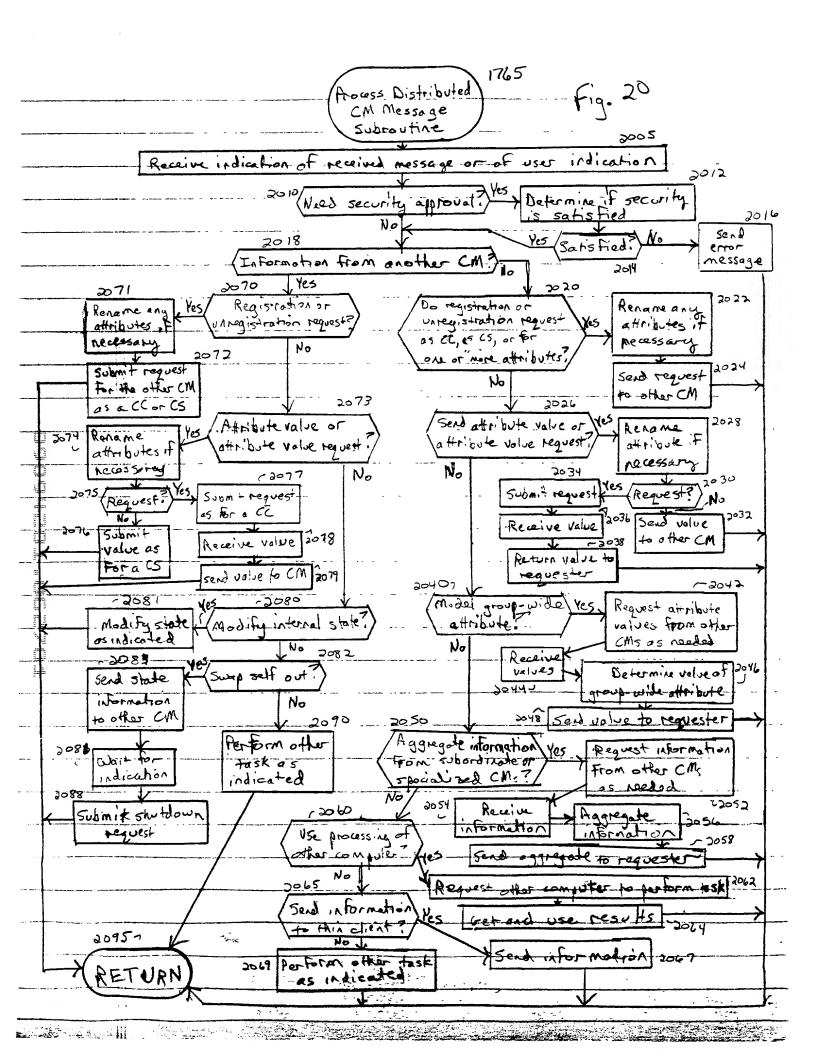
- 2) Computer
 - a) Power
 - b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
 - c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

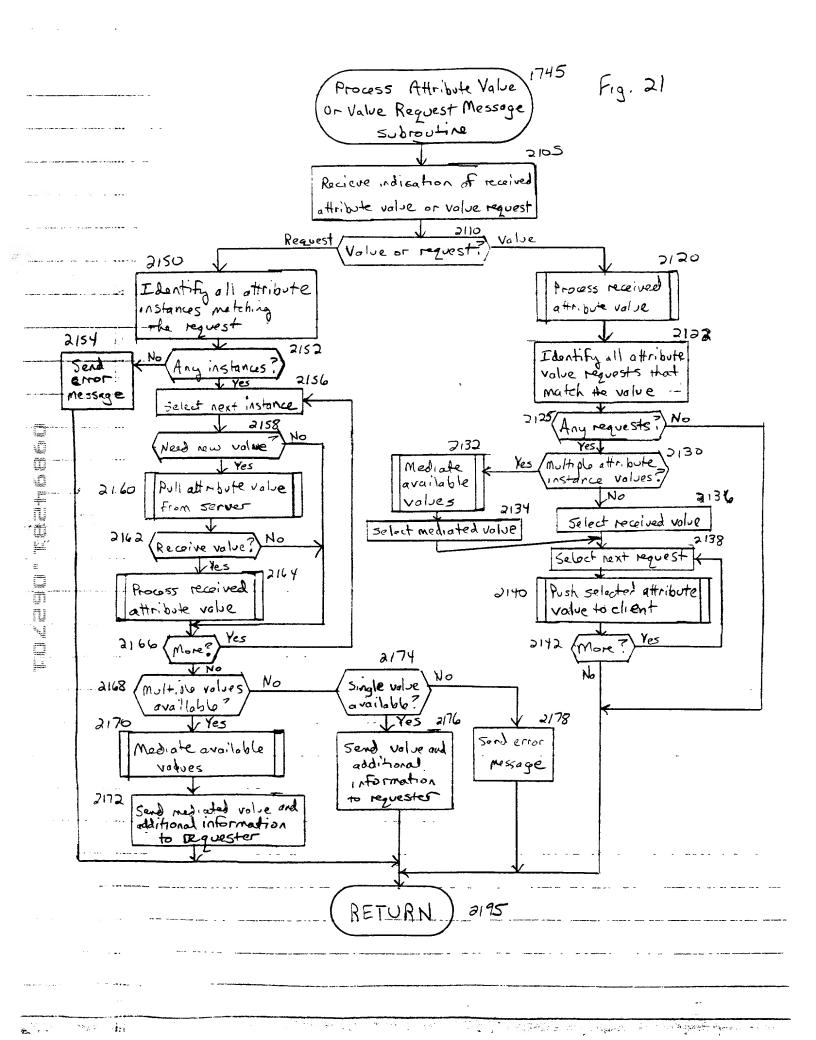
Fig. 16

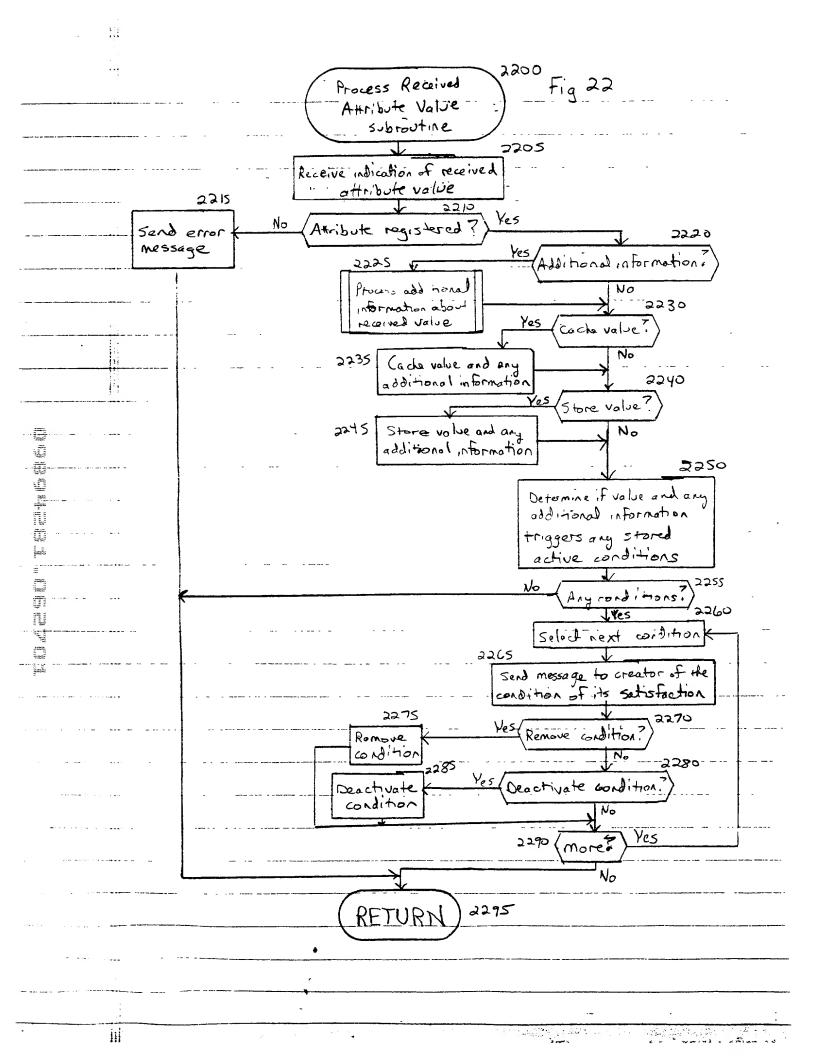


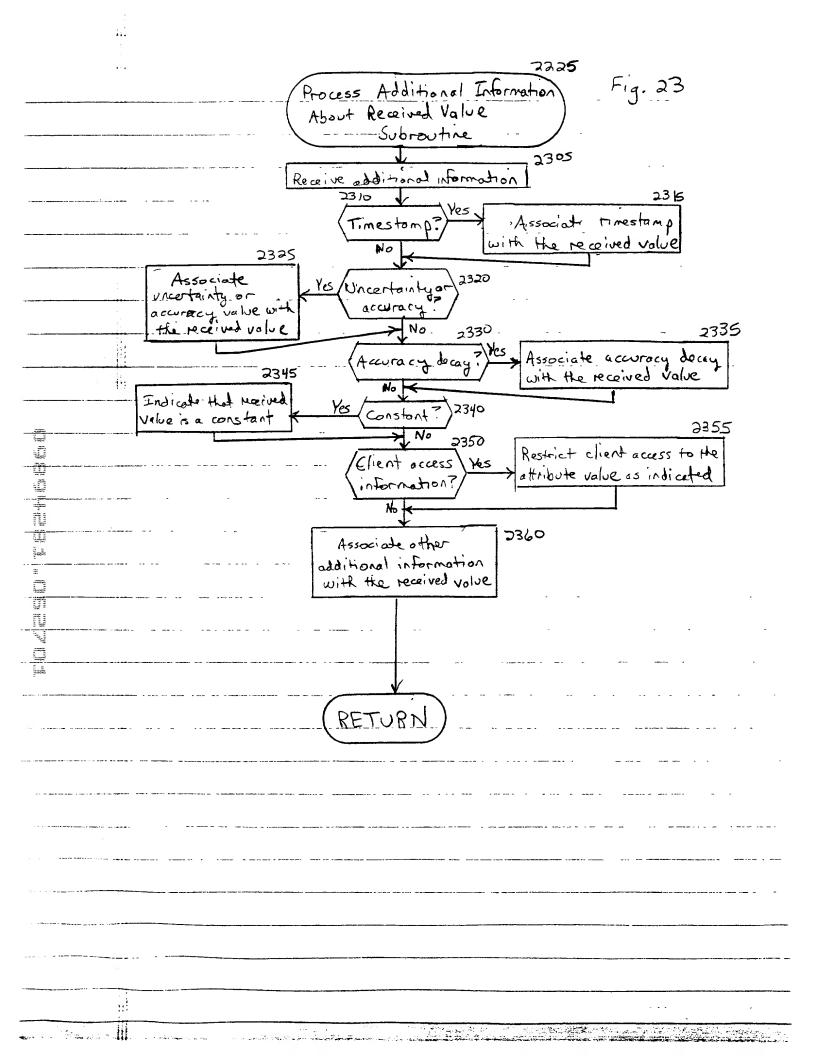


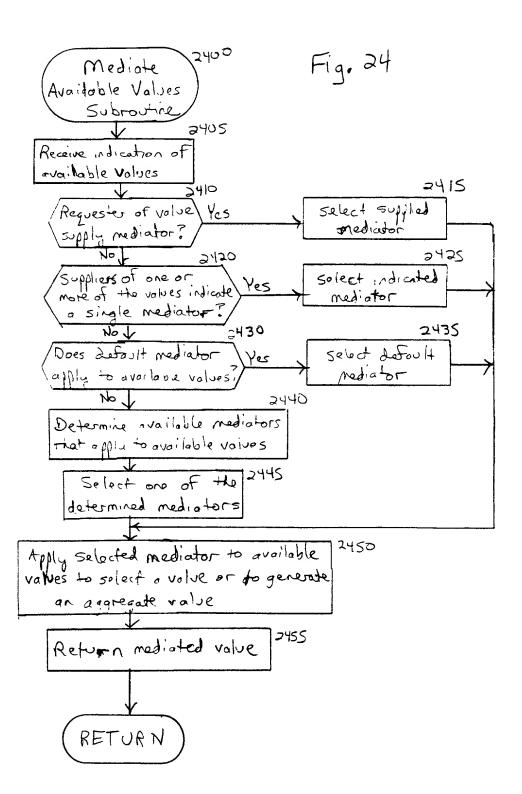












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